

Process for the removal of organic matter contained in an impure sulphuric acid. Use of the resulting acid and treatment of the effluent gas formed

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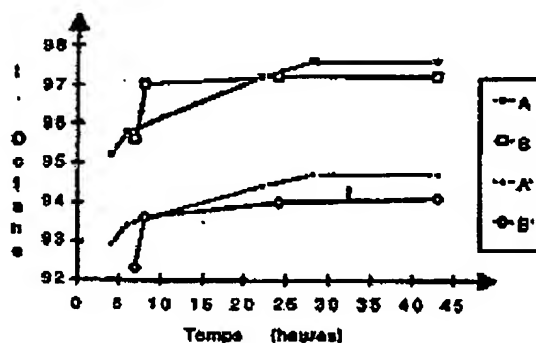
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Abstract of FR2687656

Process for the removal of hydrocarbon organic matter contained in an impure sulphuric acid comprising a stage a) in which the said acid is introduced into a liquid phase L comprising at least approximately 80% by weight of sulphuric acid maintained at a temperature of approximately 260°C to approximately 350°C at an absolute pressure of approximately 0.1 to approximately 0.3 megapascal and there is continuously recovered a gas mixture comprising water, oxides of carbon and oxides of sulphur and a liquid L containing an amount of hydrocarbon organic matter representing from 1.5% to 50% by weight, expressed as carbon atoms, of the weight of hydrocarbon organic matter introduced with the impure acid. This liquid purge L can be conveyed to a second stage where the organic matter still present is oxidised by a compound having an oxidation potential greater than that of the sulphuric acid measured under the conditions of stage a) or, in the case where the impure acid arises from an alkylation unit, be recovered in order to be used as alkylation catalyst.



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